

DENSO

Member of the TOYOTA Group

Superior ID-Technology



Automatic Data Capture Solutions



BHT-200 Series

The BHT product range:
With large QVGA screens and
Microsoft® Windows® CE.net

BHT-200 Series: Especially robust and suitable for a variety of purposes.

Discover a new freedom: Our portable “all-in-one” devices enable fast and reliable scanning everywhere. A particular advantage is the rapid scanning and processing of the captured data, just one more reason why the terminal is so user friendly.

High performance

Progressive advanced scanning technology

- Advanced scanning CCD (Charged Coupled Device) system for fast scanning at ranges of up to 700 mm — even for codes with narrower bars (0.635 mm)

High-speed processing

- A specially developed driver ensures high-speed processing of the scanned bar code data, which then appears on the display immediately

High-speed data transfer

- Standard RF technology pursuant to IEEE802.11b enables wireless data transfer with 11 Mbit/s
- Security standards WPA/802.1x, WPA/PSK



Technical data

		BHT-212B-CE	BHT-262B-CE	BHT-282B-CE	
Controller	CPU				
	Memory				
	Operating system				
Display	Resolution				
	Display device				
	Frontlight				
Scanner	System				
	Scanning area				
	Scannable codes	2-D Codes			
		Barcodes			EAN-13/-8 (Jan-13/-8) COD
	Resolution	2-D Codes			
Barcodes					
	Scanning confirmation				
Keypad	Number of keys	26 keys (numeric) + 2 trigger keys	30 keys (alphanumeric) + 2 trigger keys	30 keys (alphanumeric) + 3 trigger keys	
Communications	Optical interface	Standard			
		Speed ⁽¹⁾			
		Range ⁽³⁾			
	Wireless interface	Standard		–	
		Frequency		–	
		Range ⁽³⁾		–	
		Modulation		–	
		Speed ⁽³⁾		–	
Security		–			
Authentication		–			
	Cable interface				
Power supply	Main battery				
	Operating hours ⁽⁴⁾		15 hours	30 hours	
Auxiliary functions					
Environmental requirements	Operating temperatur				
	Splash water/Dust proof				
	Shock resistance				
Weight		ca. 360 g		ca. 400 g	

(1): Narrow bar width 1.0 mm or over, peripheral lighting min. 500 lux.

(2): Barcode: Narrow bar width 0.25 mm or over, peripheral lighting min. 500 lux.

(3): Maximum range and speed depend on operating conditions.



Long life

High durability

- No moving parts in the CCD scanning element
- Shock resistant (resists repeated dropping onto concrete from a height of 1.20 m)
- Dust and waterproof pursuant to international standard IP54

Versatile

Grip model (BHT-280BW-CE)

- Designed for various industrial logistics applications
- Extra battery in the grip enables longer use without mains supply

User-friendly

Microsoft® Windows® CE.net 5.0

- The new embedded operating system provides an open architecture for application development

Development tools

- Microsoft® embedded Visual C ++4.0 (latest Service Pack)
- Microsoft® Visual Studio® 2003 (VB.net & C#)
- BHT-200 Software Developer's Kit (SDK)

BHT-200

BHT-212B-CE	BHT-212BW-CE	BHT-232BW-CE	BHT-262BW-CE	BHT-282BW-CE	BHT-212QW-CE	BHT-262QW-CE	BHT-282QW-CE
Intel® XScale™ PXA 270 (520 Mhz)							
RAM: 128 MB (User area: 90 MB), Flash memory: 64 MB (User area: 30 MB)							
Microsoft® Windows® CE.net 5.0							
240 x 320 dots (QVGA)							
Liquid crystal dot matrix color display							
white LED Type front light							
Advanced Scanning (CCD) 1D max. 900 mm ⁽⁴⁾				Area Scanning (CCD) 2D max. 260 mm ⁽²⁾			
-				QR Code, Micro QR Code, PDF417, MicroPDF417, Maxi Code, DataMatrix, EAN.UCC Composite			
UPC-A/-E, UPC/EAN with add-on codes, Interleaved 2 of 5, CODABAR (NW-7), CODE39, CODE93, CODE128 (EAN-128), Standard 2 of 5, MSI code				EAN-13/-8 (JAN-13/-8), UPC-A/-E, UPC/EAN with add-on codes, Interleaved 2 of 5, CODABAR (NW-7), CODE39, CODE128 (EAN-128), Standard 2 of 5, MSI code, RSS			
-				0.25 mm			
0.15 mm (PCS 0.9)							
2-color LED (red/blue), buzzer, vibrator				blue LED, buzzer (with volume control), vibrator			
26 keys (numeric)	26 keys (numeric)	30 keys (alphanumeric)	30 keys (alphanumeric)	30 keys (alphanumeric)	26 keys (numeric)	30 keys (alphanumeric)	30 keys (alphanumeric)
2 trigger keys	+ 2 trigger keys	+ 2 trigger keys	+ 3 trigger keys	+ 3 trigger keys	+ 2 trigger keys	+ 2 trigger keys	+ 3 trigger keys
Infrared (IrDA-SIR 1.2-conform)							
115.2 Kbit/s							
ca. 15 cm							
IEEE802.11b				IEEE802.11b			
2.4 GHz				2.4 GHz			
Indoor: ca. 75 m, Outdoor: ca. 150 m				Indoor: ca. 75 m, Outdoor: ca. 150 m			
DS-SS				OFDM, DS-SS			
11/5.5/2/1 Mbit/s (automatic selection)				11/5.5/2/1 Mbit/s (automatic selection)			
WPA				WPA			
EAP-TLS, PEAP				EAP-TLS, PEAP			
RS232C (115.2 Kbit/s max.), USB 1.1 (Mini-B)							
Lithium-ion battery							
2 batteries	15 hours	30 hours (2 batteries)	15 hours	30 hours (2 batteries)	12 hours	12 hours	24 hours (2 batteries)
Clock, buzzer, vibrator, remaining battery							
-5 °C ~ 50 °C							
IP54							
1.20 m/30 times on concrete floor ⁽⁵⁾							
ca. 40 g	ca. 380 g	ca. 460 g	ca. 380 g	ca. 460 g	ca. 390 g	ca. 390 g	ca. 470 g

(4): When reading twice in a 10 seconds and not using the wireless interface.

(5): Test value; not guaranteed

Note

Carefully read the user manual before using the device. Specifications are subject to change without notice.
Information current as of January 2007.

Accessories

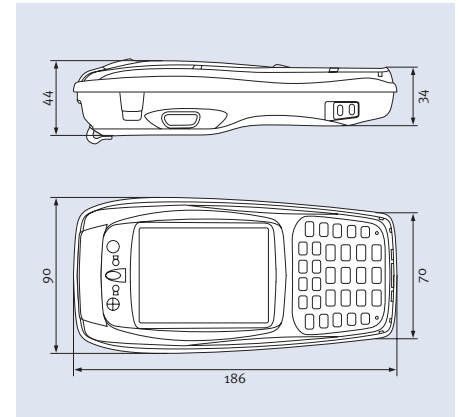
- Carrying strap
- Touch pen

Optional accessories (not supplied)

- Communication unit
(USB 1.1 interface)
- Cradle (Charging only)
- Lithium-ion battery charger CH-201
- Lithium-ion battery BT-20L



Dimensions (in mm)



Company Stamp